LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DOTD 03-22-4195 English Rev. 4/98

LABORATORY MOISTURE - DENSITY RELATIONSHIP DOTD TR 418 - Methods C & D (English)

ROJECT NO:	DATE:	LAB NO:	
TYPE ADDITIVE:	TYPE SOIL:	SAMPLE NO:	
ESTED BY:	CHECKED BY:		

	SAND	SHELL	TOTAL
PERCENT BY VOLUME	V ₁ =	V ₂ =	$V_1 + V_2 = 100$
UNIT WEIGHT, lb/ft ³	S ₁ =	S ₂ =	
THEORETICAL UNIT WEIGHT OF MIX, lb/ft3	S ₁ V ₁ =	$S_2V_2 =$	$S_1V_1 + S_2V_2 =$
PERCENT BY WEIGHT SAND-SHELL	W ₁ =	W ₂ =	$W_1 + W_2 =$
MIX WEIGHT OF SAND-SHELL, Ib	$(W_1 \times 15) + 100 =$	$(W_2 \times 15) \div 100 =$	D = 15.00

*MAX. DRY WT. DENSITY OF MATERIAL (From TR 418, Method C), lb/ft3	Α		
*REQUIRED % BY VOL. OF ADDITIVE (TR 432-B, specified)	В		
*% WT. OF ADDITIVE (chart, formula)	С		
DRY WT. OF MATERIAL (Rep. portion) (Shell, Sand-Shell), lb	D	TO THE PERSON NAMED IN	15.00
*WT. OF ADDITIVE TO BE ADDED, Ib	E	(C x D) + 100	•
*TOTAL DRY WT. OF MATERIAL AND ADDITIVE, Ib	F	D + E	

^{*} FOR USE WITH DOTD TR 418, METHOD D ONLY.

CURVE POINT NO.	***		1	2	3	4	5	6
PAN NO. (if applicable)	***)				
WATER ADDED, mL	G	See Calculations						
WT. MOLD, BASE (if appl.) & WET MATL, lb	Н	A HAR POPULATION AND LABOR TO SERVICE						
WT. MOLD & BASE (if applicable), lb	1							
WT. WET COMPACTED MATERIAL, Ib	J	H - I						
VOLUME OF MOLD (or specimen), ft ³	К	The state of the s		—				
WT. OF PAN & DRY MATERIAL, Ib	L							
WT. OF PAN, Ib	М							
WT. OF DRY MATERIAL, Ib	DW	L - M						
WT. OF WATER, Ib	WW .	J - DW			ļ		<u> </u>	
WET DENSITY, lb/ft ³	WWD	J/K						
MOISTURE CONTENT, %	МС	(WW/DW) x 100						
DRY DENSITY, Ib/ft ³	DWD	WWD × 100						

REMARKS:				